

CATS



The Official Journal of the Capital Area Timex/Sinclair Users Group

Presidential Ramblings

Not only did it pour rain March 23rd, but morning thunderstorms deterred everyone but Cliff and myself from making an early show at the Linthicum Library for our second "extracurricular" workshop. Since it was too risky to plug in computers, Cliff very kindly spent the morning getting a head start on putting together a cable for my Skip Fisher Monitor - and even offered to to finish it at his home. For his generosity I shall be eternally grateful!

I had to leave shortly after 1:00, but by then others were putting in an appearance - Duane came through the raindrops and was soon followed by the Curnutts and another car containing Mannie and both Tims. Presumably others followed, and perhaps someone will write up that part of the day's activities.

Must confess I really have nothing to share with you this month, mainly because I'm writing this the day before the April meeting in order to get it to Tim before his deadline. I'll also forego "DIDJAKNOW", but hope to pick up tidbits tomorrow to share with you in June. After that I'll have more time to hunt for material for that column since Presidential Ramblings will be someone else's responsibility.

Rather than grasping for something to write about, I'll relinquish space for more important items which I'm sure Tim has on hand.

'Nuff for now,

RUTH

From The Editor:

Here is one of those wacky months where I am doing the newsletter just days after the last meeting. This is because this past meeting was on the second Saturday of the month, while the next meeting will be on the first Saturday of the month. This does not leave me much time to get the newsletter out before the next meeting.

With this issue I'll complete my first year as being editor of the CATS Newsletter. The year has gone bye fast. It seems days after putting one newsletter to bed, that I had to start working on another. Sort of keeps me on my toes.

I guess I have to admit that the newsletter is not as much fun as it used to be. Becoming more of a chore than a pleasure. I'm not saying I'm ready to quit. As a member of the group I feel I owe something to the group to keep it going. Being newsletter editor is my contribution to the cause. I plan on continuing as editor for a while, or until the group gets tired of my dribblings and there is a mass revolt. (Fat chance I'd be so lucky :->)

In this issue you will see an article about changes to our constitution. Due our declining attendance at meetings, we needed to change the numbers on the constitution to reflect our lower attendance. Please read over the changes. For these changes to take

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Key Dates

4 May: CATS Meeting
11:00 Workshop
1:00 Executive Board Meeting
2:00 General Meeting

21 May: Newsletter Deadline
For the Next Issue

8 June: CATS Meeting
New Carrollton Library

Next Meeting:

ARCHIVE II - Tom Robbins will continue the discussion of ARCHIVE and how to get the most out of it.

Next Workshop

On going projects are cables for Skip Fisher monitors and the disk indexer. Duane is always on the look out for new projects. If you have an idea, bring it with you to the workshop.

What's Forth?

By Duane Parker

FORTH, a computer language, has been described as many things. For example, L. Brodie, in his book, *Starting FORTH*, says "Forth is many things: a high level language, an assembly language, an operating system, a set of development tools, and a software design philosophy." This might be true (I didn't understand of word of it the first time that I read it!), but what does this mean to us in CATS? First of all, Forth is available for almost nothing for all of the Sinclair machines (TS-1000, 2068, and QL) at very low prices (a public domain version is also available for MS-DOS machines). Second, the system occupies a relatively few bytes. Third, it is a challenge to learn to use, and will force you to better understand how computers make any kind of program work.

I find it difficult to compare Forth to many other high level computer languages.

1) it's interactive - you can type in commands at the keyboard and they will perform, something like our BASIC's, but the performance is much faster.

2) also programs can be written, saved to disk or tape, and compiled, and still retain the high speed. If programming mistakes are found, offending sections can be tested interactively - you do not have to go through all of the "edit, compile, link and run" steps that are required by Pascal or "C".

3) but, it may look backwards - if you have used a Hewlett-Packard calculator (H-P), you will feel at home. Forth uses stacks and postfix operators - just like the H-P does.

A Private Library

By Mark Fisher

OK bunky, so you've fought your way through the BBS and gotten to the QL program area - WHAT do all those files do?....

OK bunky, so you've come up with a dynamite ARCHIVE template, but it involves 6-8 related files. How will you keep them related on the BBS?....

OK bunky, so you've called in from a car phone in Singapore, but you can't imagine going through a separate XMODEM sequence to retrieve each file you want.... Is that what's bothering you, bunky? (Oh. It isn't. Hmmm... How about reading the Editor's column?) .LBR to the rescue!

What it is...

If you have hit any of the above situations, you stand to benefit from "Library" files. Library files allow multiple, related files to be stored as a single entry. This makes life easier in several ways:

1) The directory is less cluttered.

1a) This leaves only important programs in the directory - auxiliary files are kept alongside.

1b) This puts fewer separate entries in the fixed capacity of the directory - important because even the smallest file on the K-10 occupies 4K.

2) You can be reasonably assured that you have retrieved all the related files.

3) When telecommunicating, Library files allow you to download all the parts of a program in one shot.

There is a fair amount of time wasted listing the directory, calling up XMODEM, and getting it to send you what you want - the time savings and convenience of doing it at one shot can be

considerable. There is a hint that a given entry is a library file - it ends with .LBR(ary). In all other respects it is a normal CP/M file.

You may also find files on other boards containing .ARK(ive) or .ARC(ive) extensions. They are equivalent compilations, assembled with an ARChive utility (NOT QL's ARCHIVE). They in turn can be opened with UNARChive programs, such as the one by Harvey Taylor, as discussed below.

And how to use it...

To deal with .LBR files, you have two options. You can either use the resident library file utility on the BBS, or you can download the entire .LBR file to your machine and deal with it there.

Unfortunately, 2068 owners don't have programs available that will perform these functions, so the second choice is for "QL owners only".

*The CP/M Option:

We'll assume that you've (J)umped out of the BBS program and gotten to the B4> prompt. A DIR listing reveals several files ending in .LBR. You don't NEED to just download the whole thing. Type: L filename ...to get a listing of the component files held in "filename.LBR".

Note the filenames! You are now armed with a list of the files held in that library. XMODEM will send a single file from within the .LBR file if invoked with: XMODEM L filename.LBR heldfile.ext ["heldfile.ext" is the component file you want, and "filename.LBR" is the library file that holds it].

You may have two further problems: the file may be compressed in some way, or it may be a machine code program for the QL. Keep reading.

The QL option:

What you need to have. The following actions depend on invoking a series of programs. These are not unique - the basic functions are performed by a variety of programs in the DOS or CP/M worlds. In the QL world, however, the only programs that I know of were written by Harvey Taylor, as "accessories" to his QLINK telecomm program. I have placed these accessory programs as a library file - QLINK-FL.LBR in User Area 4, QL programs.

The program to separate the files is on the board as a separate file - LU.JOB. This should allow the reader to "Bootstrap" his/her capacity to use .LBR files. QLINK itself is available as a .LBR file on the BBS. It is shareware, and it is worth the registration cost to get Harvey's excellent manual for the program.

Downloading the files:

The first step is to dial up the BBS, and use the (J)ump to CP/M command. Make sure you're in User Area B4, type: D (or DIR) .. You should find LU.JOB there. Type: XMODEM s LU.JOB<ENTER> ... then set up the XMODEM receive on your end.

Further use of XMODEM will also retrieve whatever .LBR files you are interested in. TYPE-DN would be a bad choice, as some of the files held in the .LBR file may be machine code.

Using LU_JOB

So you've retrieved your first .LBR file. You can't run it. While you can look at the ASCII portions of it, the several component files are strung together in an un-runnable mess.

Now what? Well, it's time to warm up LU_JOB by Harvey Taylor, to reach into that library and separate it into its component files. While you've got LU_JOB in your machine, it's not quite ready to run. As with everything on these

machines, there's one more step. The file you retrieve will contain the correct commands to do what you want, but the QL needs to see a specific header on the file.

To create a running program, you must reset the machine, and type the following:

```
a=RESPR(6106)
REMark this reserves 6106 bytes
of space in memory. "a" will be its
address. I got the 6106 value via
WSTAT flpl_
LBYTES flpl_LU_JOB,a
REMark LU_JOB is now IN memory.
SEXEC flpl_LU_JOB,a,6106,0
REMark LU_JOB will be saved off,
with a header telling the QL that
it's a runnable program.
```

The operation of this program is simple - a mere matter of invoking the program with EX LU_JOB, telling it what file to work on, and following the occasional prompts provided.

The other shoe drops: .BQS, .DZC, etc... files: What They Are...

Mark...!...!...! I can't read some of the separated files either! Oh yes (heh, heh, heh). When faced with a massive library of programs, burdened SYSOPS (me) have recourse to another trick. We/I can squeeze or CRunch the files. Many files can stand to lose a lot of their bulk, without losing any of their meaning - a screen dump, for example, may have large areas of a single color. A squeeze program would code that block of color with two bytes; showing what is repeated, and how many of that byte there are in the original.

And What to do...

On your end, an unsqueeze program will restore the original file. There is one last problem. There is more than one way to condense a program, and each method has it's own method of un-condensing. The program involved leaves you a hint, however: an extra "Q" means it's been "sQuoze"; use UNSQ_JOB. A "Z" in the extension means it's been

"crunZched" and you'll have to use
UNCR_JOB.

In operation, they are as simple to use as LU_JOB. Uploading: Assembling your own .LBRaries. Unfortunately, Mr. Taylor didn't see fit to include the capacity to CREATE .LBR files in his version of LU_JOB. I have such an ability on the board, however - in User Area B8. You will have to upload each of the programs you intend to include in your .LBRary separately, using XMODEM. Then from the B8> cursor, type LU310, and follow its prompts to open, and then add programs to your .LBR file. When you're done, don't forget to leave a message about what's there! If your files contain long text, BASIC or screen dumps, I can squeeze them before they're included in the .LBR file. Just leave me a note about which files need treatment, and I'll finish the job.

I hope that the above discussion has given you a wider vision of what's possible through the BBS.

Current .LBR files (2-15-91) on B4> (all QL)

BAS-BOOT.LBR	Various utility
BOOT programs	
BASGAMES.LBR	BASIC games
CAD-QL.LBR	A drawing suite
FILTER.LBR	File utilities
to ease translation to outside	
FONT.S.LBR	QL Fonts
HUMOR.LBR	Humor
MACPT-QL.LBR	Conversion
suite to convert MacPaint files to	
QL	
QL52.LBR	Effective
Telecomm program suite	
QLINK-PI.LBR	H. Taylor's
File utilities	
QLINK-TE.LBR	Effective
Telecomm program suite	

Constitutional Amendments

By Ted Osheroff

Here are the proposed amendments to the constitution as suggested at our last meeting - 13 Apr 91:

[Capitol Letters are additions,
(>'s denote deletions]

ART 3 / Sec 4: Quorums:

A quorum for the General and Annual meetings shall consist of (20) members IN ATTENDANCE OF WHICH AT LEAST ONE MUST BE AN ELECTED OFFICIAL OF C.A.T.S. Five shall constitute a quorum for the Executive Board meeting.

ART 6 / Sec 1; Term of office:

The term of office shall (run from July 1 to June 30) COMMENCE AT THE CLOSE OF THE ANNUAL MEETING.

ART 6 / Sec 2; Nominations:

A Nominating Committee CHAIRMAN, WHO SHALL SELECT ADDITIONAL MEMBERS TO COMPLETE THE COMMITTEE, SHALL BE appointed by the President and approved by the Executive Board, AND shall present the slate to the membership at the May general meeting. The final slate will be published in the June newsletter.

Linthicum Meetings

Two more meetings have been scheduled at the Linthicum Library. These dates are:

May 18 and November 16

Come join the members from the Baltimore area in a place closer to thier home. Directions are in the January 1990 issue of the Newsletter.

Estate Planning

By George Ray

Trusts

As I mentioned earlier a trust is more or less an arrangement like a life insurance policy. And in most states they are treated by probate proceedings in like manner, ie no reporting of or inquires about them upon the trustor's death.

However, in inheritance tax states, like Maryland, trust property is a non-probate asset and these assets and who they go to, must be reported seperately but to the same people, ie Registrar of Wills. This is so that a seperate inheritance tax can be defined. In this case the non-probaters must see and verify a certified copy of your trust instrument which they return to you and do not make a part of the public record, except if the trust is mentioned in the will which then requires a copy be filed with the probaters, making it a part of the public record.

Furthermore, if a beneficiary of your trust is a minor and they are not happy with the trustee of your trust, the court may intervene and the trust is again available for the public record.

Before proceeding further let me define the type and most commonly used trust used to augment, if not substitute, for a will to carry one's real wishes as to the distribution of, hopefully, the bulk of, your estate assets. The trust I refer to is a Revocable Living (inter vivos) Trust, which is one established by a trustor who also acts, while he lives, as the trustee and thus maintains total control of all the trust assets, including income therefrom and the power to revoke the trust at any time until his death, at which time the trust becomes irrevocable and with a new trustee, ie the successor trustee.

So why all this bother, especially since there is no income

tax advantages? Well for one, if it is good enough for "Tip" O'Neil, its good enough for me. And if you are worth more than \$25,000 and don't want the world to know it, placing your assets, over \$25,000, in trust allows you to keep a straight face and claim poverty. "Tip" may even be eligible for Medicaid. Another reason is that this type trust, in holding legal title to assets, is exempt from probate, and creditors too, if your trust is not made part of the public record.

Still another benefit is that the trust allows assets less than \$600,000 to pass on to non-spouse beneficiaries tax free due to the Federal Exemption of this amount allowed to be transfer free of estate tax. This latter benefit helps many elderly persons who have, largely through inflation, accumulated book value estates in excess of the exemption.

I realize the amount of exemption sounds large, but don't fool yourself. For example your estate will increase by about \$250,000 if you die in an airline crash. You may inherit a windfall, you may win a lottery, or your dormant stock may double overnight by virtue of a takeover buyout, and then there is inflation. My household goods are on my home owners policy books at \$75,000 and I doubt if they cost me over \$10,000.

The point is do not underestimate your net worth, surely the taxers will not, as they will also include any annuity you leave behind at its present value, at the time of your death, based on the life expectancy of the beneficiary. So in spite of your impoverished feeling you may be worth more dead than alive. Plan for it then to the extent practical and having a trust set up for your assets can be a good non-probate repository.

If the advantages of a trust appeal to you I recommend reading Denis Clifford's "Plan Your Estate with a Living Trust". This

reference was 1989's "best personal finance book" around. Clifford's book is for do-it-yourselfers, with simple forms and advice. He is a lawyer with a concious. His forms are easy to duplicate and tailor to Quill and to replicate in mirror images for whomever you wish. I am creating a trust for my wife that duplicates mine in principal to allow her to have the same flexibility I expect mine to give me.

Now beware all is not milk and honey. There is much ignorance and misgivings amongst those institutions in which you may deposit trust accounts in the trust name. They may attempt to ask for more that they need to prove the existence or validity of the trust, which is really none of their business.

Furthermore, they may accept trust assets with ease but then when your successor trustee wants to take them out he may encounter some difficulty requiring delays and paper work to certify his truteeship and authority and certification of his signature and tax waivers from an inheritance state may also be required before they let go of your money to him.

Because of these possibilities I recommend finding out, before hand, just what each institution (banks, brokers, funds, etc.) you expect the trust to deal with and what their requirements are. And if you don't like their conditions go elsewhere.

A straightfoward trust instrument (ie, a Declaration of Trust or Trust Agreement) for a single individual should run no more than 12 pages, using double type spacing, on 8 1/2 by 11 inch bond paper. Your Quill program will handle this with ease.

A question of concern is the legality of your trust instrument. I am sure we have the inalienable right to give our property to whomever we wish under whatever condition we want. If the Indians can do it why not us? I view a

closed trust as one with no outsiders in it, with only trusted blood relatives in a private formalized agreement between them.

Therefore there is no third party that has any business to judge a trust's legality. The question is, is the trust legally enfoceable. And the answer is yes, if its clear in its contents, is not illegal, and most importantly if it is brought to attention, for litigation, to the state. Only a beneficiary, as a party to it, can complain and only for actions of a trustee not in his interest. If your trustee and beneficiaries are loving blood kin there should be no problem.

More Good, Bad, & Uh, QL's

By Herb Schaaf

I hesitate to make out a 'form' with 'fill-in-the-blanks' sort of questionnaire, since it might suggest that we know what to look for in advance. I prefer a more free and open examination of the situations various owners can provide about their good and bad QL's. Archive likes multiple choice; I hope essay answers may give us insights. At the risk of repeating; what can you tell us about your QLs including, but certainly not limited to the following information ? :

QL Heredity

Inherent Internal Influences - Source ? - At, Sharp's, Curry, kit-built, etc. Serial Number? Chip sets? ROM(s), RAMS, I/O, CPU, Etc. Power Supply? Xfmr, Regulator, Heat abatement, modifications, Surgery performed, patches made, before/after results At this stage of data collection, its nice if you happen to know these 'trivial' (or not-so-trivial?) details, but please don't go digging into your QL if you're happy with the way it works.

QL Environment

External Extremes Encountered - RFI, TVI, dust, damp, dirt, heat,

cold, sunlight, dark, shock, vibration. (I've wondered how hard it is on the QL to be ripped from its home nest, then packed & rattled down the road to a CATS meeting, set up, torn down, and back again. It has to put some extra strains on it [as well as on the owner/user(s)]).

QL Peripherals

Powerful Push-Pull Potentials & Physical Propinquity. Also Attached Accessories and Add-ons and all that other hardware stuff that's hooked up, plugged in, wired-on, etc.. Printers, disk drives, modems, monitors, plotters, digitizers, etc., you name it.

QL Software

Simple Selfmade SuperBasic, Sophisticated Psion, Commercial, copied, cloned,

QL User(s) Habits and personalities?

Aggressive key pounders, or gentle touch and feel key press and strokers? Impatient quick-tempered with short fuses or bemused & patient "let's give it a chance to catch its breath"? Rough-and-ready or slow-and-steady?

Times of use

Hours of operation, time(s) of day, week, etc. Monthly binges? OFF/ON/OFF/ intervals? ON/OFF/ON intervals? Leave it on all the time?, all day? (forgot and left it on all night?)

Metaphysics

If bad QL - any superstitions, pet theories, unfounded beliefs?

Simple Questionnaire:

My name is:

I have _____ QLs
I have _____ good QLs that never crash.
I have _____ bad QLs that crash, but I never know why.
I have _____ Uh QLs that crash, and I think I know why.

Check box if it applies:

☐ I don't want anymore to do with this.

☐ I'm willing to try to help fathom the mystery.

Remarks, comments, observations, musings, sketches, plans, use extra pages, please !!

Little Languages

By Tim Swenson

Part 3: Parser

The parser is part of a compiler (or translator) that decides if the incoming code is syntactically correct. It makes sure that what you are saying in a particular language is valid.

It would be stupid to say "I to the store going" in English. The parts of the sentence are in the wrong order. In the sentence "He is joystick" just plain does not make sense.

In a way, we parse sentences. After seeing so many words in a sentence, we know what is expected. A parser does the exact same thing. It knows what commands should be next, given the last few commands.

A parser should tell you that FOR I = 1 TO IF, is not valid. It would reply "Number expected after TO", or something to that effect. It knows that an IF statement is not applicable at that point.

The hard part of writing parsers is getting them to know what is right and what is wrong. You have to specify the proper grammar of a language. Then a parser will test the code against this grammar and report any failures.

One can spend months doing proper study of the theory behind parsers. Things like, automata, state diagrams, recursive parsers, etc. They are necessary if you want to write a good parser.

For this project I opted for the shorter route, write something that is inelegant, but works. The parser below is about the ugliest parser ever written. It fits the bare minimums for a parser, but it should give you an idea of the workings behind a parser.

Since parser's are so hard to write, programmer's have come up with a Unix C utility that helps, YACC (Yet Another Compiler Compiler). Yacc will take a grammar written in a special format and create the C code for that parser. It's very handy for serious compiler writers.

Below is the procedure PARSE that will take in the output file from the lexical analyser and parse it. If there are any errors, the procedure will report them then stop running. Realistically the parser should continue, but this parser is too ugly for that.

Next time, the code generator.

```

DEFine PROCedure parser
  LOCAL tok, exp_end, exp_num,
  exp_ob, exp_ob, exp_label,
  count_tok, drives$

  CLS
  INPUT "Enter Drive used (FLP1_,
  RAM1_, etc) : ";drives$

  OPEN #4,drives$&"lex_out"

  count_tok = 1
  exp_num = 0
  exp_end = 0
  exp_ob = 0
  exp_ob = 0

  REPEAT loop
    INPUT #4,tok$
    IF EOF(#4) THEN EXIT loop

    ** Handle expectations from
    previous tokens

    IF exp_num > 0 AND NOT
    (tok$(1)>="0" AND tok$(1)<="9") THEN
      PRINT "Syntax Error:"
      PRINT " Expected NUMBER

```

```

at Token # ";count_tok
PRINT " Token Found :
";tok$
CLOSE #4 : STOP
END IF

IF exp_ob = 1 AND tok$<>"["
THEN
  PRINT "Syntax Error:"
  PRINT " Expected [ at
  Token # ";count_tok
  PRINT " Token Found :
  ";tok$
  CLOSE #4 : STOP
END IF

** Handle Present Token
IF (tok$="F") OR (tok$="R") OR
(tok$="RP") OR (tok$="L") THEN
  exp_num=1
  IF (tok$="B") OR (tok$="SB")
OR (tok$="SP") OR (tok$="W") THEN
    exp_num=1
    IF tok$ = "SC" THEN exp_num =
    2
    IF tok$ = "T" THEN exp_end = 1
    IF (tok$="T") OR (tok$=":")
  THEN exp_label = 1
    IF tok$ = "P" THEN exp_ob = 1
    IF tok$ = "[" THEN exp_ob = 1
    : exp_ob = 0
    IF tok$ = "I" THEN exp_ob = 0
    IF tok$ = "E" THEN exp_end = 0
    IF LEN(tok$) > 2 AND NOT
    (tok$(1)>="0" AND tok$(1)<="9") THEN
      exp_label = 0
      IF (tok$(1)>="0" AND
      tok$(1)<="9") THEN exp_num = exp_num
      - 1

    IF exp_num < 0 THEN
      PRINT "Syntax Error:"
      PRINT " Too Many Numbers
    at Token #";count_tok
    PRINT " Number Found :
    ";tok$
    STOP
    END IF

    count_tok = count_tok + 1
  END REPEAT loop

  IF tok$="]" THEN exp_ob = 0

  IF exp_ob = 1 THEN
    PRINT "Syntax Error:"
    PRINT " Expected [ before
    End of File."

```

END IF

IF tok\$="E" THEN exp_end = 0

IF exp_end = 1 THEN

PRINT "Syntax Error:"

PRINT " Expected END
before End of File."

END IF

CLOSE #4

CATS Meeting in Sub. Baltimore

By Ruth Fegley

The afternoon of Saturday, January 19th found a dedicated group from CATS happily set up in the meeting room of Baltimore County's Linthicum library. Whereas no formal program was presented, the usual sharing kept everyone busy and seemingly satisfied with the opportunity for extra coaching from the various gurus present. Tom Robbins demonstrated TURBO QUILL and also gave me an invaluable assist by transferring my SPELLBOUND onto a QUILL disk. However, he reminded me that it was MY responsibility to read the manual if I expected to learn how to use this helpful extra!

Duane and Herb continued their pursuit of the Index program. It sounds as though we'll soon be asked for a full scale critique of their efforts.

Cliff sought help in getting a printer driver installed on his XCHANGE disk - one of the very few times he was asking for assistance rather than giving it! Bill List, George Rey, Tim Acord, Hank Dickson and Christopher Boston rounded out the nucleus by joining us for at least part of the afternoon. Not bad for a first attempt at an "extracurricular" activity!

Many thanks to Duane and Cliff for their work in getting this show on the road.

A Novelty Program

By George Chambers

Sinc-Link May/June 1989

This listing provides a novel title display, which can be incorporated into another program. It was supplied to the club by David Solly; though it's original source is not apparent.

The program fires a program title onscreen in machine-gun fashion. The title can be up to 16 characters long. The title is placed in the first line of the program, and in this listing it is "BANG! YER DEAD!"

Line 60 places the title in the top left corner of the screen. It cannot be seen normally because the INK has been made the same colour as the PAPER. However the computer scans the area of the screen (the two FOR/NEXT loops, X and Y) for the presence of pixels operated by the wording, and if, in LINE 90, it detects an operated pixel the routine in LINES 100-140 comes into play to spell the wording out in the mid-section of the screen.

G.F.C.

```
60 INK 7: PAPER 1: BORDER 1: C
LS : PRINT INK 1;AT 0,0;"BANG!
YER DEAD!"
70 FOR x=0 TO 127
80 FOR y=0 TO 7
90 IF NOT POINT (x,y+168) THE
N GO TO 150
100 PLOT 2*x,3*y+80
110 PLOT 0,0: DRAW OVER 1;2*x,
3*y+79
120 PLOT 0,0: DRAW OVER 1;2*x,
3*y+79
130 BEEP .001,30
140 PLOT 2*x,3*y+81
150 NEXT y
160 NEXT x
170 CLS : RUN
9000 REM Disc Save
9010 PRINT USR 100: SAVE "Gun.B1
" LINE 1
```

affect, we need a quorum at the June meeting. As per the current constitution, a quorum is 20 people. This means we need 20 people to show up at the June meeting. So this is a small plea to try and get as many people to show up to the June meeting.

Happy Hacking,

Tim

For Sale

Many Programs:

Some Books Included

Many copies of Sum, Sync,

Syncware, and Time Designs.

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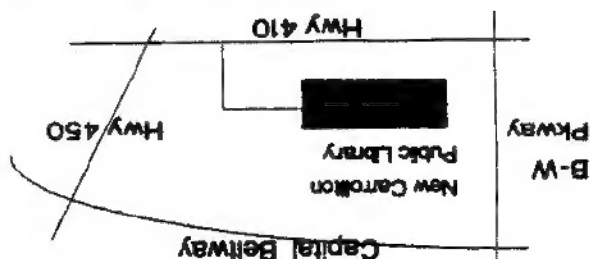
IF YOU ARE NOT A MEMBER OF CATS, THIS IS THE ONLY ISSUE YOU WILL

At: New Carrollton Public Library 7414 Riverdale Road (Hwy 410), New Carrollton, MD

2:00 PM General Meeting

11:00 AM Workshop

The next meeting of CATS will be held on: May 4, 1991



Takoma Park, MD 20913

P.O. Box 11017

CATS Newsletter

FIRST CLASS MAIL

The Capital Area Timex/Sinclair Users Group is a not-for-profit group devoted to serving the interests of those who own, use, or are interested in the Timex/Sinclair family of computers.

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CATS maintains a gratis exchange of newsletters with approximately 30 Users Groups across the U.S. and Canada. Groups not sending a newsletter to us for six months are automatically taken off the list.

Meetings

Monthly meetings are held from 11:00 AM to 4:30 PM, on the second Saturday of each month, at the New Carrollton Public Library.

Newsletter

Memberships cost \$15 per year, are good for 12 months, and include all privileges (access to libraries, group buys, etc.). A newsletter only subscription is available for persons living outside the Washington Metro area and is \$12 per year.

Networks

Timex SIG on Compuserve: Wednesday night, 10:00 PM Eastern time (GO CLUB).

CATS BBS: (301) 588-0579. 8-N-1. 300/1200 baud. News and general information, 24 hours a day.